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plungers plunges plunging plunk pluperfect plural **plurality** plurals plus ...

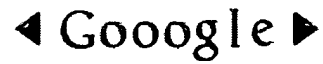
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... Rutledge ellipsoidal grievors **reassignment** detail clientele autopilots ...

tub varying foster behaves ungrateful severally **plurality** comics unforgiving ...

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... maximizes **maximizing** maxims maximum maximums maxwell may mayapple maybe ...
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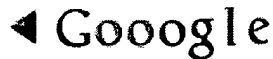
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a aardvark aardvarks aback abacus abacuses abalone abandon ...
... clumsiest clumsily clumsiness clumsy clung **cluster** clustered clustering ...
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... clumsiness= clumsy= clung= **cluster**= clustered= clustering= clusterings= ...
plunger= plungers= plunges= plunging= plunk= plural= **plurality**= plurals= ...
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Deb, S.; Pattipati, K.R.; Bar-Shalom, Y.;

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 29 , Issue: 2 , April 1993

Pages:560 - 568

[\[Abstract\]](#) [\[PDF Full-Text \(732 KB\)\]](#) **IEEE JNL**

2 A flexible monitoring platform to build cluster management services

Saab, C.B.; Bonnaire, X.; Folliot, B.;

Cluster Computing, 2000. Proceedings. IEEE International Conference on , 28 Nov.-1 Dec. 2000

Pages:258 - 265

[\[Abstract\]](#) [\[PDF Full-Text \(696 KB\)\]](#) **IEEE CNF**

3 Tracking multiple talkers using microphone-array measurements

Sturim, D.E.; Brandstein, M.S.; Silverman, H.F.;

Acoustics, Speech, and Signal Processing, 1997. ICASSP-97., 1997 IEEE International Conference on , Volume: 1 , 21-24 April 1997

Pages:371 - 374 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) **IEEE CNF**

4 Data mining and fuzzy modeling

Pedrycz, W.;

Fuzzy Information Processing Society, 1996. NAFIPS. 1996 Biennial Conference of the North American , 19-22 June 1996

Pages:263 - 267

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE CNF**

5 Polarimetric backscattering at 23 cm wavelength from Antarctic lead ice

and estimation of ice thickness*Winebrenner, D.P.;*

Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Sensing for a Sustainable Future.', International , Volume: 2 , 27-31 May 1996
 Pages:941 - 943 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(1336 KB\)\]](#) [IEEE CNF](#)

6 An adaptive rate allocation to source-channel coding for Internet video*Jae Cheol Kwon; Jae-kyoon Kim;*

Global Telecommunications Conference, 2002. GLOBECOM '02. IEEE , Volume: 1 , 17-21 Nov. 2002
 Pages:544 - 548 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(370 KB\)\]](#) [IEEE CNF](#)

7 Observations on the application of chaos theory to the study of Kondratyev waves*Lill, J.;*

Management of Engineering and Technology, 2001. PICMET '01. Portland International Conference on , Volume: 1 , 29 July-2 Aug. 2001
 Pages:189 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(69 KB\)\]](#) [IEEE CNF](#)

8 Adaptive prefetching technique for shared virtual memory*Sang-Kwon Lee; Hee-Chul Yun; Joonwon Lee; Seungyool Maeng;*

Cluster Computing and the Grid, 2001. Proceedings. First IEEE/ACM International Symposium on , 15-18 May 2001
 Pages:521 - 526

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) [IEEE CNF](#)

9 Scaling a neuro fuzzy system and applications to 3D visualization and robot path planning*Nam, D.; Singh, H.; Muench-Casanova, S.; Gerhart, G.; Goetz, R.;*

IFSA World Congress and 20th NAFIPS International Conference, 2001. Joint 9th , Volume: 2 , 25-28 July 2001
 Pages:1074 - 1079 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(540 KB\)\]](#) [IEEE CNF](#)

10 A vegetation map of the Central Congo basin derived from microwave and optical remote sensing data using a variable resolution classification approach*De Grandi, G.F.; Mayaux, P.; Massart, M.; Baraldi, A.; Sgrenzaroli, M.;*

Geoscience and Remote Sensing Symposium, 2001. IGARSS '01. IEEE 2001 International , Volume: 3 , 9-13 July 2001
 Pages:1350 - 1352 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(122 KB\)\]](#) [IEEE CNF](#)

11 Experimental data analysis by neural nonparametric methods*Terekhoff, S.A.;*

Neuroinformatics and Neurocomputers, 1995., Second International Symposium on , 20-23 Sept. 1995
 Pages:337 - 345

[\[Abstract\]](#) [\[PDF Full-Text \(492 KB\)\]](#) IEEE CNF

12 **Analysis of the human EEG using self-organising neural nets**

Roberts, S.; Tarassenko, L.;

Neurological Signal Processing, IEE Colloquium on , 26 Mar 1992

Pages:6/1 - 6/3

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1 [Research track papers: A probabilistic framework for semi-supervised clustering](#)

Sugato Basu, Mikhail Bilenko, Raymond J. Mooney

 August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

 Full text available: [pdf\(187.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Unsupervised clustering can be significantly improved using supervision in the form of pairwise constraints, i.e., pairs of instances labeled as belonging to same or different clusters. In recent years, a number of algorithms have been proposed for enhancing clustering quality by employing such supervision. Such methods use the constraints to either modify the objective function, or to learn the distance measure. We propose a probabilistic model for semi-supervised clustering based on Hidden Mar ...

Keywords: distance metric learning, hidden Markov random fields, semi-supervised clustering

2 [Generalized clustering, supervised learning, and data assignment](#)

Annaka Kalton, Pat Langley, Kiri Wagstaff, Jungsoon Yoo

 August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

 Full text available: [pdf\(601.04 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clustering algorithms have become increasingly important in handling and analyzing data. Considerable work has been done in devising effective but increasingly specific clustering algorithms. In contrast, we have developed a generalized framework that accommodates diverse clustering algorithms in a systematic way. This framework views clustering as a general process of iterative optimization that includes modules for supervised learning and instance assignment. The framework has also suggested s ...

Keywords: Clustering, iterative optimization, supervised learning

3 [Efficiency and scaling: Assigning identifiers to documents to enhance the clustering property of fulltext indexes](#)

Fabrizio Silvestri, Salvatore Orlando, Raffaele Perego

 July 2004 **Proceedings of the 27th annual international conference on Research and development in information retrieval**

 Full text available: [pdf\(201.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web Search Engines provide a large-scale text document retrieval service by processing

huge *Inverted File* indexes. Inverted File indexes allow fast query resolution and good memory utilization since their *d*-gaps representation can be effectively and efficiently compressed by using variable length encoding methods. This paper proposes and evaluates some algorithms aimed to find an assignment of the document identifiers which minimizes the average values of *d*-gaps, thus enhanc ...

Keywords: clustering property, document identifier assignment, index compression, web search engines

4 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available:  [pdf\(636.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

5 Polynomial-time approximation schemes for geometric min-sum median clustering

Rafail Ostrovsky, Yuval Rabani

March 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 2

Full text available:  [pdf\(257.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Johnson--Lindenstrauss lemma states that n points in a high-dimensional Hilbert space can be embedded with small distortion of the distances into an $O(\log n)$ dimensional space by applying a random linear transformation. We show that similar (though weaker) properties hold for certain random linear transformations over the Hamming cube. We use these transformations to solve NP-hard clustering problems in the cube as well as in geometric settings. More specifically, ...

Keywords: Clustering, high-dimensional data, polynomial-time approximation schemes

6 Access methods for text

Chris Faloutsos

March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Full text available:  [pdf\(2.59 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper compares text retrieval methods intended for office systems. The operational requirements of the office environment are discussed, and retrieval methods from database systems and from information retrieval systems are examined. We classify these methods and examine the most interesting representatives of each class. Attempts to speed up retrieval with special purpose hardware are also presented, and issues such as approximate string matching and compression are discussed. A quali ...

7 Process migration

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3


Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

8 Parallel hierarchical molecular structure estimation

Cheng Che Chen, Jaswinder Pal Singh, Russ B. Altman
November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  [pdf\(220.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Determining the structure of biological macromolecules such as proteins and nucleic acids is an important element of molecular biology because of the intimate relation between form and function of these molecules. Individual sources of data about molecular structure are subject to varying degrees of uncertainty. Previously we have examined the parallelization of a probabilistic algorithm for combining multiple sources of uncertain data to estimate the three-dimensional structure of molecule ...

9 Query evaluation techniques for large databases

Goetz Graefe
June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  [pdf\(9.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

10 Session 21: computer-communication interaction: Time and/or space sharing in a workstation cluster environment

Stephen W. Turner, Lionel M. Ni, Betty H. C. Cheng
November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(960.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The *clustered parallel computer* (CPC), based on a workstation cluster, is becoming popular as a choice for high-performance network or parallel computing. However, operating system overheads, network protocols, and higher message-passing latency contribute to a lower overall communication performance in a cluster of workstations, increasing the likelihood that timesharing of parallel jobs can be used to improve system throughput in a workstation cluster. The traditional means by which the ...

11 Estimation of blocking probabilities in cellular networks with dynamic channel assignment

Felisa J. Vázquez-abad, Lachlan L. H. Andrew, David Everitt

January 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,
Volume 12 Issue 1

Full text available:  pdf(385.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Blocking probabilities in cellular mobile communication networks using dynamic channel assignment are hard to compute for realistic sized systems. This computational difficulty is due to the structure of the state space, which imposes strong coupling constraints amongst components of the occupancy vector. Approximate tractable models have been proposed, which have product form stationary state distributions. However, for real channel assignment schemes, the product form is a poor approximation a ...

Keywords: Blocking probability, cellular networks, importance sampling

12 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available:  pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

13 Formulation and preliminary test of an empirical theory of coordination in software engineering

James D. Herbsleb, Audris Mockus
September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 28 Issue 5

Full text available:  pdf(283.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Motivated by evidence that coordination and dependencies among engineering decisions in a software project are key to better understanding and better methods of software creation, we set out to create empirically testable theory to characterize and make predictions about coordination of engineering decisions. We demonstrate that our theory is capable of expressing some of the main ideas about coordination in software engineering, such as Conway's law and the effects of information hiding in modu ...

Keywords: Conway's Law, coordination, empirical studies, empirical theory, engineering decisions

14 Multiview access protocols for large-scale replication

Xiangning Liu, Abdelsalam Helal, Weimin Du
June 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 2

Full text available:  pdf(365.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The article proposes a scalable protocol for replication management in large-scale replicated systems. The protocol organizes sites and data replicas into a tree-structured, hierarchical cluster architecture. The basic idea of the protocol is to accomplish the complex task of updating replicated data with a very large number of replicas by a set of related but

independently committed transactions. Each transaction is responsible for updating replicas in exactly one cluster and invoking add ...

Keywords: data replication, large-scale systems, multiview access

15 Resource allocation scheme for QoS provisioning in microcellular networks carrying multimedia traffic

Anna Hać, Abhinay Armstrong

September 2001 **International Journal of Network Management**, Volume 11 Issue 5


Full text available:  [pdf\(393.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new resource allocation scheme based on the concept of resource reservation and resource renegotiation. The new scheme is aimed at improving performance with regard to new call blocking rate, handoff dropping rate, forced call termination rate, and average bandwidth use. We compare our scheme with other schemes. The performance is evaluated by using simulation. Copyright © 2001 John Wiley & Sons, Ltd.

16 The pebble crunching model for load balancing in concurrent hypercube ensembles

J. Barhen, S. Gulati, S. S. Iyengar

January 1988 **Proceedings of the third conference on Hypercube concurrent computers and applications: Architecture, software, computer systems, and general issues - Volume 1**


Full text available:  [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The successful development of fifth generation systems require enormous computational capability and flexibility necessitating the ability to achieve operational responses in hard real-time through optimal resource utilization. This entails dynamically balancing the computational load among all the processing nodes in the system. We propose a graph-theoretic, receiver-initiated, distributed protocol for dynamic load balancing protocol in large-scale hypercube ensembles. Using attributed hyp ...

17 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available:  [pdf\(5.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

18 Exploiting Value Locality in Physical Register Files

Saisanthosh Balakrishnan, Gurindar S. Sohi

December 2003 **Proceedings of the 36th Annual IEEE/ACM International Symposium on Microarchitecture**

Full text available:  [pdf\(194.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)
 [Publisher Site](#)

The physical register file is an important component of a dynamically-scheduled processor. Increasing the amount of parallelism places increasing demands on the physical register file, calling for alternative file organization and management strategies. This paper considers the use of value locality to optimize the operation of physical register files. We present empirical data showing that: (i) the value produced by an instruction is often the same as a value produced by another recently executed instr ...

19 View management in multimedia databases

K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 **The VLDB Journal – The International Journal on Very Large Data Bases**,
Volume 9 Issue 2Full text available:  [pdf\(322.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Though there has been extensive work on multimedia databases in the last few years, there is no prevailing notion of a multimedia view, nor there are techniques to create, manage, and maintain such views. Visualizing the results of a dynamic multimedia query or materializing a dynamic multimedia view corresponds to assembling and delivering an interactive multimedia presentation in accordance with the visualization specifications. In this paper, we suggest that a non-interactive multimedia prese ...

Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, View management

20 System on chip design: An integrated algorithm for memory allocation and assignment in high-level synthesis

Jaewon Seo, Taewhan Kim, Preeti R. Panda

June 2002 **Proceedings of the 39th conference on Design automation**Full text available:  [pdf\(134.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the increasing design complexity and performance requirement, data arrays in behavioral specification are usually mapped to fast on-chip memories in behavioral synthesis. This paper describes a new algorithm that overcomes two limitations of the previous works on the problem of memory-allocation and array-mapping to memories. Specifically, its key features are (1) *a tight link to the scheduling effect*, which was totally or partially ignored by the existing memory synthesis systems, a ...

Keywords: memory allocation, memory assignemt, memory design, scheduling effect

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21 [A Multi-Agent Systems Approach to Autonomic Computing](#)

Gerald Tesauro, David M. Chess, William E. Walsh, Rajarshi Das, Alla Segal, Ian Whalley, Jeffrey O. Kephart, Steve R. White

 July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**

 Full text available: [pdf\(208.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The goal of autonomic computing is to create computing systems capable of managing themselves to a far greater extent than they do today. This paper presents Unity, a decentralized architecture for autonomic computing based on multiple interacting agents called autonomic elements. We illustrate how the Unity architecture realizes a number of desired autonomic system behaviors including goal-driven self-assembly, self-healing, and real-time self-optimization. We then present a realistic prototype ...

22 [Provisioning algorithms for WDM optical networks](#)

Murat Alanyali, Ender Ayanoglu

 October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5

 Full text available: [pdf\(289.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

23 [Research sessions: selectivity: Hierarchical subspace sampling: a unified framework for high dimensional data reduction, selectivity estimation and nearest neighbor search](#)

Charu C. Aggarwal

 June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

 Full text available: [pdf\(1.40 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the increased abilities for automated data collection made possible by modern technology, the typical sizes of data collections have continued to grow in recent years. In such cases, it may be desirable to store the data in a reduced format in order to improve the storage, transfer time, and processing requirements on the data. One of the challenges of designing effective data compression techniques is to be able to preserve the ability to use the reduced format directly for a wide range of ...

24 [Reconfiguration of carrier assignment in cellular networks](#)

Angelos N. Rouskas, Michael G. Kazantzakis, Miltiades E. Anagnostou

 December 1999 **Wireless Networks**, Volume 5 Issue 6

 Full text available: [pdf\(241.51 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

25 Dynamic channel assignment in wireless communication networks

Anna Haj Hać, Chunlei Haj Mo

March 1999 **International Journal of Network Management**, Volume 9 Issue 1Full text available: [pdf\(359.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new Cochannel information based Dynamic Channel Assignment ∥CDCA∥ strategy for small and microcell systems and a new Group Dynamic Channel Assignment ∥GDCA∥ strategy which handles multichannel traffic in wireless networks. Copyright © 1999 John Wiley & Sons, Ltd.

**26 Agent behavior and agent models in unregulated markets**

K. Smith, R. Paranjape, L. Benedicti

September 2001 **ACM SIGAPP Applied Computing Review**, Volume 9 Issue 3Full text available: [pdf\(936.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Mobile-agent systems show significant promise as the most effective way to harness the power of the Internet and the massive collection of information and opportunity that the Internet holds. However the efficient organization and control of these systems remains one of a number of unsolved problems with this approach to network computing. This paper examines a mobile-agent system with specific focus on environment sensing, preemptive load balancing and open agent markets. Agent behaviour is stu ...

Keywords: AR modeling, agent system modeling, environment sensing, load balancing, mobile agents

**27 MA-WATM: a new approach towards an adaptive wireless ATM network**

Khaldoun Al agha, Houda Labiod

May 1999 **Mobile Networks and Applications**, Volume 4 Issue 2Full text available: [pdf\(176.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In a cellular multimedia network like wireless ATM (WATM), self control seems primordial. Our new approach is based on the application of DAI (distributed artificial intelligence) techniques in order to build a self-adaptive network within random non-uniform traffic conditions. Attempting to achieve a high network capacity in terms of resource allocation and air interface BER (bit error rate), we propose to apply intelligent agent features to enhance the architecture of WATM systems. In fac ...

**28 Measurement: The impact of address allocation and routing on the structure and implementation of routing tables**

Harsha Narayan, Ramesh Govindan, George Varghese

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**Full text available: [pdf\(148.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The recent growth in the size of the routing table has led to an interest in quantitatively understanding both the causes (*eg* multihoming) as well as the effects (*eg* impact on router lookup implementations) of such routing table growth. In this paper, we describe a new model called **ARAM** that defines the structure of routing tables of any given size. Unlike simpler empirical models that work backwards from effects (*eg* current prefix length distributions), **ARAM** a ...

Keywords: IP lookups, modeling, routing tables



29

TACCLE: a methodology for object-oriented software testing at the class and cluster levels

Huo Yan Chen, T. H. Tse, T. Y. Chen

January 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 10 Issue 1


Full text available:  pdf(289.85 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Object-oriented programming consists of several different levels of abstraction, namely, the algorithmic level, class level, cluster level, and system level. The testing of object-oriented software at the algorithmic and system levels is similar to conventional program testing. Testing at the class and cluster levels poses new challenges. Since methods and objects may interact with one another with unforeseen combinations and invocations, they are much more complex to simulate and test than ...

Keywords: algebraic specifications, contact specifications, message passing, object-oriented programming, software testing

30 Optimal partitioners and end-case placers for standard-cell layout

A. E. Caldwell, A. B. Kahng, I. L. Markov

April 1999 **Proceedings of the 1999 international symposium on Physical design**Full text available:  pdf(1.04 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

31 Research track: Translation-invariant mixture models for curve clustering

Darya Chudova, Scott Gaffney, Eric Mjolsness, Padhraic Smyth

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**Full text available:  pdf(688.59 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a family of algorithms that can simultaneously align and cluster sets of multidimensional curves defined on a discrete time grid. Our approach uses the Expectation-Maximization (EM) algorithm to recover both the mean curve shapes for each cluster, and the most likely shifts, offsets, and cluster memberships for each curve. We demonstrate how Bayesian estimation methods can improve the results for small sample sizes by enforcing smoothness in the cluster mean curves. We e ...

Keywords: EM, alignment, curve clustering, mixture model, transformation invariance

32 An energy-conscious algorithm for memory port allocation


Preeti Ranjan Panda, Lakshmikantam Chitturi

November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design**Full text available:  pdf(111.21 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multiport memories are extensively used in modern system designs because of the performance advantages they offer. The increased memory access throughput could lead to significantly faster schedules in behavioral synthesis. However, they also have an associated area and energy penalty. We describe a technique for mapping data accesses to multiport memories during behavioral synthesis that results in significantly better energy characteristics than an unoptimized multiport design. The technique c ...

33 Efficient parallel algorithms can be made robust

P. C. Kanellakis, A. A. Shvartsman

June 1989 **Proceedings of the eighth annual ACM Symposium on Principles of distributed computing**Full text available:  pdf(1.17 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

34 Processor allocation policies for message-passing parallel computers


Cathy McCann, John Zahorjan

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 22 Issue 1Full text available:  [pdf\(1.50 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

When multiple jobs compete for processing resources on a parallel computer, the operating system kernel's processor allocation policy determines how many and which processors to allocate to each. In this paper we investigate the issues involved in constructing a processor allocation policy for large scale, message-passing parallel computers supporting a scientific workload. We make four specific contributions: We define the concept of efficiency preservat ...

35 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

36 Learning II: A time series clustering based framework for multimedia mining and summarization using audio features

Regunathan Radhakrishnan, Ajay Divakaran, Ziyou Xiong

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**Full text available:  [pdf\(618.98 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Past work on multimedia analysis has shown the utility of detecting specific temporal patterns for different content genres. In this paper, we propose a unified, content-adaptive, unsupervised mining framework to bring out such temporal patterns from different multimedia genres. We formulate the problem of pattern discovery from video as a time series clustering problem. We treat the sequence of low/mid level audio-visual features extracted from the video as a time series and perform a tempor ...

Keywords: audio classification, time series analysis, video summarization**37 Lexicon acquisition: The acquisition of lexical knowledge from combined machine-readable dictionary sources**

Antonio Sanfilippo, Victor Poznański

March 1992 **Proceedings of the third conference on Applied natural language processing**Full text available:  [pdf\(816.16 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#) [Publisher Site](#)

This paper is concerned with the question of how to extract lexical knowledge from Machine-Readable Dictionaries (MRDs) within a lexical database which integrates a lexicon development environment. Our long term objective is the creation of a large lexical knowledge base using semiautomatic techniques to recover syntactic and semantic information from MRDs. In doing so, one finds that reliance on a single MRD source induces inadequacies which could be efficiently redressed through access to comb ...

**38** Evaluation of Placement Techniques for DNA Probe Array Layout

Andrew B. Kahng, Ion Mandoiu, Sherief Reda, Xu Xu, Alex Z. Zelikovsky

November 2003 **Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design**Full text available: [pdf\(200.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

DNA probe arrays have emerged as a core genomic technology that enables cost-effective gene expression monitoring, mutation detection, single nucleotide polymorphism analysis and other genomic analyses. DNA chips are manufactured through a highly scalable process, Very Large-Scale Immobilized Polymer Synthesis (VL-SIPS), that combines photolithographic technologies adapted from the semiconductor industry with combinatorial chemistry. Commercially available DNA chips contain more than a half million probes ...

**39** Context-specific Bayesian clustering for gene expression data

Yoseph Barash, Nir Friedman

April 2001 **Proceedings of the fifth annual international conference on Computational biology**Full text available: [pdf\(233.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The recent growth in genomic data and measurement of genome-wide expression patterns allows to examine gene regulation by transcription factors using computational tools. In this work, we present a class of mathematical models that help in understanding the connections between transcription factors and functional classes of genes based on genetic and genomic data. These models represent the joint distribution of transcription factor binding sites and of expression levels of a gene in a single ...

**40** DB-1 (databases): data integration: Organizing structured web sources by query schemas: a clustering approach

Bin He, Tao Tao, Kevin Chen-Chuan Chang

November 2004 **Proceedings of the Thirteenth ACM conference on Information and knowledge management**Full text available: [pdf\(323.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the recent years, the Web has been rapidly "deepened" with the prevalence of databases online. On this deep Web, many sources are *structured* by providing structured query interfaces and results. Organizing such structured sources into a domain hierarchy is one of the critical steps toward the integration of heterogeneous Web sources. We observe that, for structured Web sources, query schemas (*ie*, attributes in query interfaces) are discriminative representative ...

Keywords: data integration, deep Web, hierarchical agglomerative clustering

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